Play with TikZ

Just Us

December 12, 2018

1 Section 7.2

 ${\it fig-7-2-sina\ transformations\ of\ sine}$

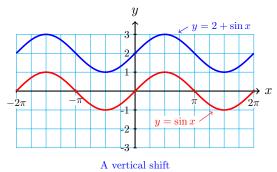


fig-7-2-sinb scaling of sine

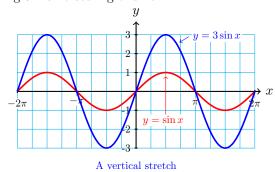
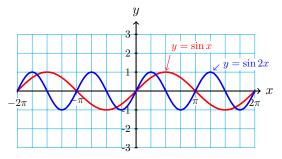
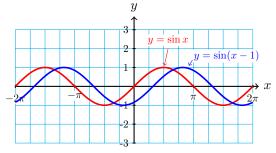


fig-7-2-sinc horizontal compression of sine



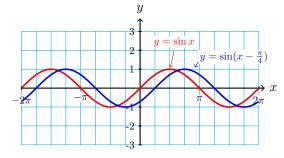
A horizontal compression

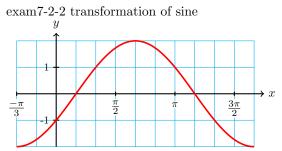
fig-7-2-sind horizontal shift of sine $\,$

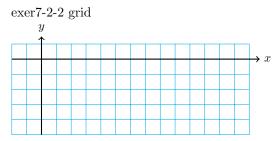


A horizontal shift

exam7-2-1 horizontal shift of sine







exer7-2-2ans -2+sin(x-pi/6)

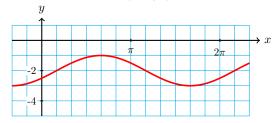


fig-7-2-cta $\sin[2(x-pi/3)]$

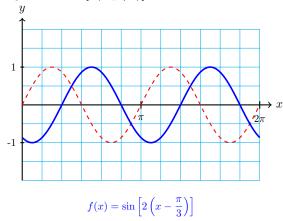
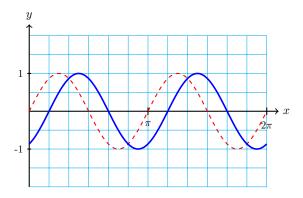
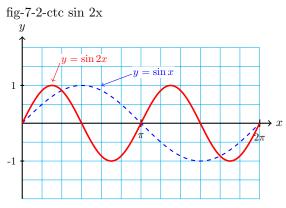


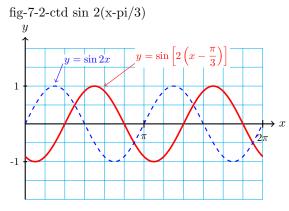
fig-7-2-ctb $\sin[2x-pi/3]$



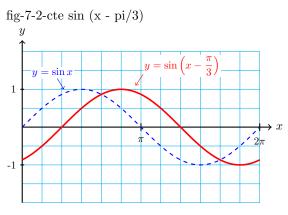
$$f(x) = \sin\left(2x - \frac{\pi}{3}\right)$$



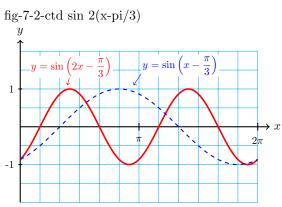
a. Step 1



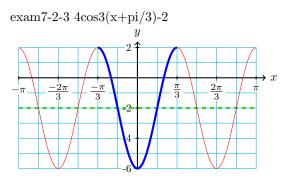
b. Step 2



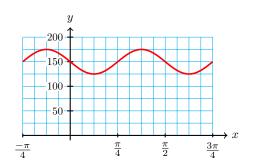
a. Step 1

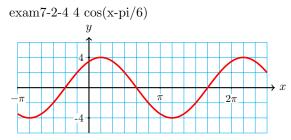


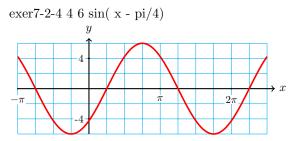
b. Step 2



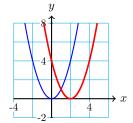
exer7-2-3ans 150-25 cos(4x-pi/2)



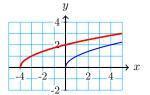




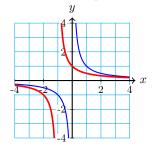
 $\operatorname{ar}7\text{-}2\text{-}1\operatorname{ans}$ parabolas



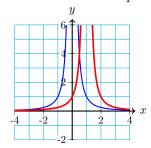
ar7-2-2ans square roots



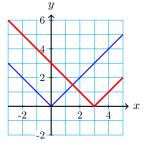
ar7-2-3ans reciprocals



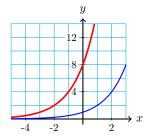
 $\operatorname{ar7-2-4ans}$ inverse squares



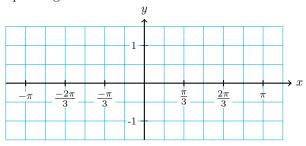
ar
7-2-5
ans absolute values $\displaystyle {y \atop y}$



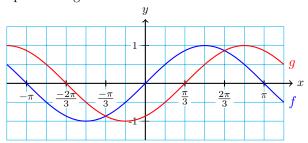
ar7-2-6ans absolute values



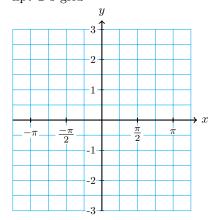
 $\mathrm{hp}7\text{-}2\text{-}1\ \mathrm{grid}$

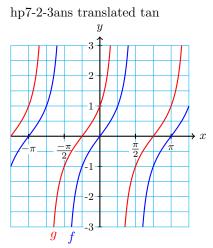


hp7-2-1ans grid

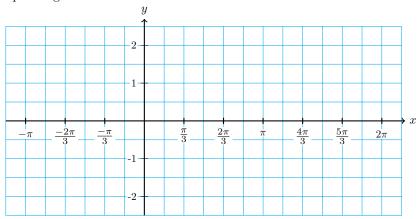


hp7-2-3 grid

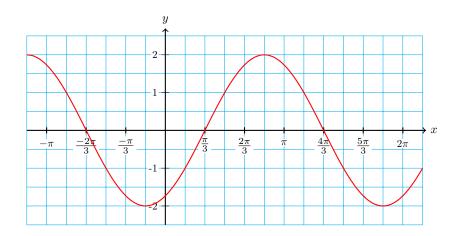




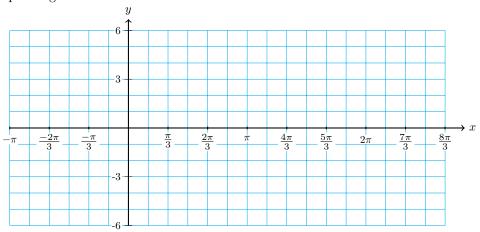
hp7-2-5 grid



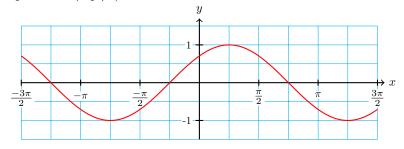
hp7-2-5ans -2 cos(x + pi/6)



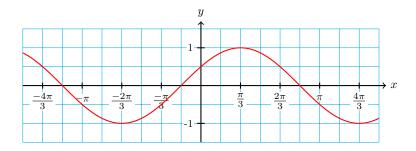
hp7-2-6 grid



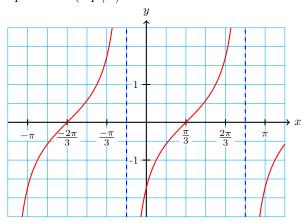
 $hp7-2-7 \cos(x-pi/4)$



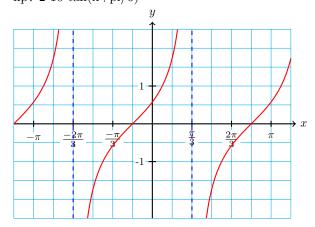
hp7-2-8 cos(x-pi/3)



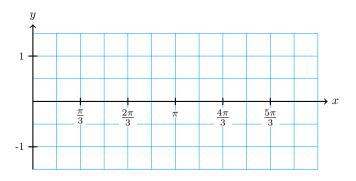
hp7-2-9 tan(x-pi/3)

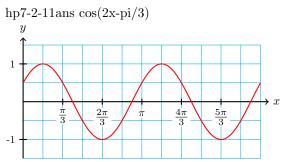


hp7-2-10 tan(x+pi/6)

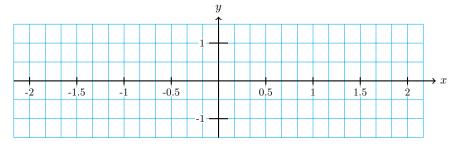


 $\mathrm{hp}7\text{-}2\text{-}11~\mathrm{grid}$

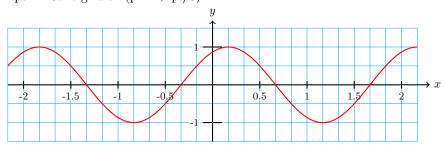




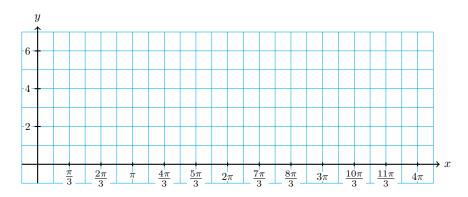
 $\mathrm{hp}7\text{-}2\text{-}13~\mathrm{grid}$



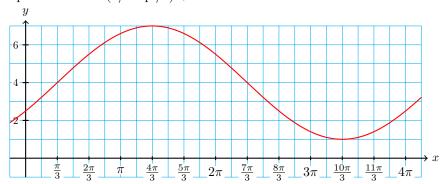
hp7-2-13ans grid $\sin(\text{pi x} + \text{pi}/3)$



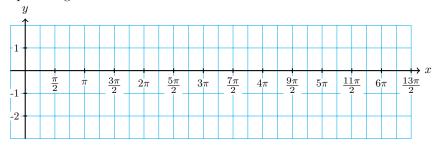
 $\mathrm{hp}7\text{-}2\text{-}15~\mathrm{grid}$



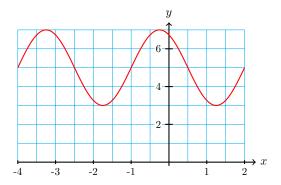
hp7-2-15ans 3sin(x/2 - pi/6) + 4



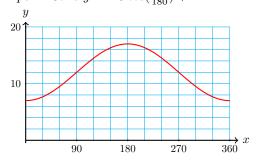
 $\mathrm{hp}7\text{-}2\text{-}16$ grid

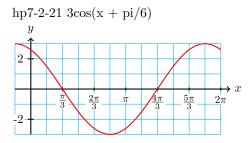


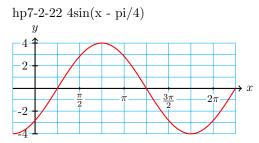
hp7-2-17ans 2 sin(2pi/(x + 4))+5



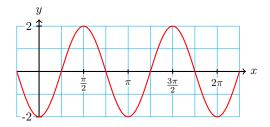
hp7-2-19ans $y = -5\cos(\frac{\pi x}{180}) + 12$



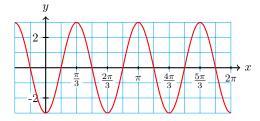




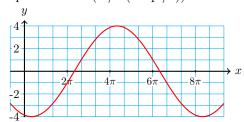
hp7-2-23 -2cos(2x)



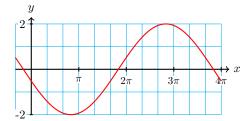
hp7-2-24 -3 $\cos(3x 6)$



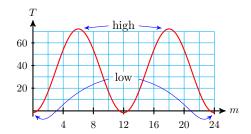
hp7-2-25 -4cos(1/4 (x - pi/3))



hp7-2-26 -2sin(.5(x+pi/6))



hp7-2-27ans $-36.95\cos(\frac{\pi}{6}m) + 35.35$



hp7-2-29ans $h(t) = 1.4 - 1.4\cos(0.51t)$

